

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20090022
Agency Interest No. 1406

Ms. Hermie Bundick
General Manager
Motiva Enterprises LLC
15536 River Rd
Norco, LA 70079

RE: Part 70 Operating Permit Renewal, Hydrocracker Unit, Norco Refinery, Motiva Enterprises LLC, Norco St.
Charles Parish, Louisiana

Dear Ms. Bundick:

This is to inform you that the permit renewal for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2009.

Permit No.: 2629-V3

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

SGQ
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

I. Background

Motiva Enterprises LLC operates the Hydrocracker Unit (HCU) under Part 70 Operating Permit No. 2629-V2 dated March 25, 2008.

II. Origin

This review was initiated by an application dated October 1, 2009, requesting a Part 70 Operating permit renewal.

III. Description

The Hydrocracking Unit (HCU) processes straight run and cracked gas oils into lighter products (volatiles, gasoline, and naphtha) and distillates. The feed materials are combined with hydrogen and heated in the gas-fired 1st Stage Reaction Heater F-41 prior to entering the 1st stage hydrocracking reactor where sulfur and nitrogen compounds are removed via catalytic reaction with hydrogen. The unreacted hydrogen is removed in a series of separator vessels following the reactor, while the hydrocarbons undergo fractionation in the 1st stage fractionator. The heat input for the 1st stage fractionator is provided by the gas-fired 1st Stage Fractionator Reboiler F-42. The bottoms from the 1st stage fractionator are combined with the recycle bottoms from the 2nd stage fractionator and fresh gas oil feeds. The combined recycle and fresh feed are mixed with hydrogen and heated in the gas-fired 2nd Stage Reaction Heater F-43 prior to entering the 2nd stage hydrocracking reactor. The 2nd stage reactor products are flashed to remove light hydrocarbons from the product stream. The liquid portion is sent to the fractionator train, the heat input for the 2nd stage fractionator is provided by the gas-fired Main Fractionator Reboiler F-44.

Permit No. 2629-V2 dated March 25, 2008 allowed the facility to incorporate HCU Turnaround Project. The project was analyzed for the Prevention of Significant Deterioration (PSD) review. VOC emissions from the project were above the significance level. Since the VOC emission increase from the fugitives was over 100 tons per year the facility performed a screening procedure based on Scheffe's method. Dispersion modeling analysis was conducted for other pollutants. The modeling results did not exceed the PSD significant monitoring levels for any pollutant. The facility did not net out for VOC emissions (fugitives) increase. Leak detection and repair (LDAR) was determined to be best available control technology (BACT).

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

The facility is proposing to renew the current permit without any changes to the facility.

Permitted emissions from the HCU in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	7.24	7.24	-
SO ₂	26.53	26.53	-
NO _x	99.64	99.64	-
CO	83.47	83.47	-
VOC*	110.40	110.40	-
H ₂ S	0.39	0.39	-

*** VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
2,2,4-Trimethylpentane	<0.01	<0.01	-
Benzene	0.31	0.31	-
Diethanolamine	0.89	0.89	-
Ethyl benzene	0.39	0.39	-
Formaldehyde	0.08	0.08	-
n-Hexane	7.33	7.33	-
Naphthalene (and methyl-naphthalenes)	0.23	0.23	-
Phenol	<0.01	<0.01	-
Polynuclear Aromatic Hydrocarbons	0.05	0.05	-
Toluene	1.02	1.02	-
Xylene (mixed isomers)	0.73	□□□□-	-
Total	11.03	11.03	-
Other VOC		99.37	

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

The facility is classified under "Petroleum Refineries" for which there are established standards in New Source Performance Standards (NSPS), 40 CFR 60, Subpart J – Petroleum Refineries. Motiva is also subject to NSPS, 40 CFR 60, Subpart GGG – Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries; 40 CFR 60, Subpart QQQ – Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater System; 40 CFR 61, Subpart FF – National Emission Standard for Benzene Waste Operations; and 40 CFR 63, Subpart CC – National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries. The refinery as a whole is a major source of toxic air pollutants and must comply with all the applicable provisions of LAC 33:III.Chapter 51 – Comprehensive Toxics Air Pollutant Emission Control Program and the Louisiana Refinery MACT Determination July 26, 1994 with some minor changes.

IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NSPS, and NESHAP. Prevention of Significant Deterioration does not apply. The facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The air toxic compliance plan was approved January 8, 1996 and has been incorporated in this permit. Motiva shall manage and treat the facility's water so that the benzene quantity is equal to or less than 6 MG/yr (13,200 lbs/yr) as per the requirements of 40 CFR 61.643(e).

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

VI. Public Notice

A notice requesting public comment on the permit was published in The Advocate, Baton Rouge, Louisiana and St. Charles Herald-Guide, Louisiana, on November **, 2009. Copies of the public notice were mailed out to individuals on the mailing list maintained by Office of Environmental Services on November **, 2009. The proposed permit was sent to EPA via e-mail on November **, 2009. All comments received shall be considered before a decision is made for this proposed permit.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

Previous modeling results are as follows

Dispersion Model Used: AERMOD

Pollutant	Time Period	Calculated Maximum Ground Level Concentration ($\mu\text{g}/\text{m}^3$)	National Air Quality Standard (NAAQS) ($\mu\text{g}/\text{m}^3$)
PM10	Annual	30	50
SO2	Annual	42	80
NO2	Annual	99	100

VIII. General Condition XVII Activities

Activity	Frequency	VOC Emissions		OTHERS	
		Lb/Activity	TPY	TPY	
Sampling*	486 events/month	-	0.31	-	-

* Emission routed to a control device, Emission Point 4-84

IX. Insignificant Activities

ID No.:	Description	Citation

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

-	Portable Heaters (3 Heaters total 0.45 MM BTU/hr)	LAC 33:III.501.B.5.A.5
-	Laboratory Vent (501 scfm)	LAC 33:III.501.B.5.A.6
A3021	Process Vent Analyzers (16 scfh)	LAC 33:III.501.B.5.A.9
A3410	Process Vent Analyzers (3 scfh)	LAC 33:III.501.B.5.A.9
A3409	Process Vent Analyzers (3 scfh)	LAC 33:III.501.B.5.A.9
A3408	Process Vent Analyzers (Neg. scfh)	LAC 33:III.501.B.5.A.9
A3020	Process Vent Analyzers (16 scfh)	LAC 33:III.501.B.5.A.9
A2953	Process Vent Analyzers (16 scfh)	LAC 33:III.501.B.5.A.9
TK-101	Tank (560 gal)	LAC 33:III.501.B.5.A.10
-	Nalco 1720 Storage Tank (400 gal)	LAC 33:III.501.B05.A.10
-	Catalyst Charging (Hydrotreating and Hydrocracking)	LAC 33:III.501B.5.A.11

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NORCO REFINERY, HYDROCRACKER UNIT

AGENCY INTEREST NO. 1406

MOTIVA ENTERPRISES LLC

NORCO, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2301	29*	51*	52	56
UNF005	HCU, Hydrocracking Unit	1	1	1	1			1	1			1			1	1	1	1
EQT80	22-71, 1st Stage Reaction Heater (F-41)					1	1	1										2
EQT81	23-71, 1st Stage Fractionation Reboiler (F-42)					1	1	1										2
EQT82	24-71, 2 nd Stage Reaction Heater (F-43)					1	1	1										2
EQT83	25-71, Main Fractionation Reboiler (F-44)					1	1	1										2
EQT311	698-K, HCU Seal Oil Traps																	
EQT312	697-K, HCU Seal Oil Traps																	
EQT313	703, HCU Feed Surge Vent																	
EQT314	706, HCU Level Gas Purge																	
EQT315	707, HCU 1 st Stage Fractionator Vent																	
EQT316	708, HCU 2 nd Stage Fractionator Vent																	
EQT317	767, HCU T/A Enviro Project Stream																	1
EQT318	776, HCU Pump Seal Pot																	
EQT319	777, HCU Pump Seal Pot																	
EQT324	709, H2 Plant Product																	
EQT325	710, H2 Plant Product																	
EQT326	711, H2 Plant Product																	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2301	29*	51*	52	56
EQT327	712, H2 Plant Product																	
EQT328	713, H2 Plant Product																	
EQT329	714, H2 Plant Product																	
EQT330	715, H2 Plant Product																	
FUG12	3011-95, Fugitive Emissions (Hydrocracker Unit)										1	1			1			
ARE21	3210-95, HCU Wastewater Emissions										1				1			

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
- Blank – The regulations clearly do not apply to this type of emission source.
 LAC 33:III.Chapter 51 and Chapter 29 are State Only requirements.

* The regulations indicated above are State Only regulations.

- ▲ All LAC 33:III.Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHPAP						40 CFR			
		A	Db	Dc	J	Kb	XX	GGG	NNN	QQQ	A	J	M	V	FF	A	Q	CC	UUU	SDs	SGs	68	82
UNF005	HCU, Hydrocracking Unit	1									1	1	1	1								1	1
EQT80	22-71, 1st Stage Reaction Heater	2	2	1					1													2	
EQT81	23-71, 1st Stage Fractionation Reboiler	2	2	1					1													2	
EQT82	24-71, 2 nd Stage Reaction Heater	2	2	1					1													2	
EQT83	25-71, Main Fractionation Reboiler	2	2	1					1													2	
EQT311	698-K, HCU Seal Oil Traps	2	2	1					1													2	
EQT312	697-K, HCU Seal Oil Traps																						
EQT313	703, HCU Feed Surge Vent																						
EQT314	706, HCU Level Gas Purge																						
EQT315	707, HCU 1 st Stage Fractionator Vent																						
EQT316	708, HCU 2 nd Stage Fractionator Vent																						
EQT317	767, HCU T/A Enviro Project Stream																						
EQT318	776, HCU Pump Seal Pot																						

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

X. Applicable Louisiana and Federal Air Quality Requirements

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR										
		A	Db	Dc	J	Kb	XX	GGG	NNN	QQQ	A	J	M	V	FF	A	Q	CC	UUU	SDs	5Gs	68	82	
KEY TO MATRIX																								
1	The regulations have applicable requirements which apply to this particular emission source.																							
	-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.																							
2	The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.																							
3	The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.																							
	Blank - The regulations clearly do not apply to this type of emission source.																							

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
GRP28 Unit Wide	Compliance Assurance Monitoring 40 CFR Part 64	Does not apply	40 CFR 64.42(a)(2)	No control device to be used to comply with any standards or limits
EQT80 22-71, 1st Stage Reaction Heater (F-41)	Emission Standards for Particulate Matter – Emission Limits	Does not apply	LAC 33:III.1301.B	Indirect heating
EQT81 23-71, 1st Stage Fractionation Reboiler (F-42)	Comprehensive Toxic Air Pollutant Emission Control Program – State Only	Does not apply	LAC 33:III.5105.B.3.a	Burns Group 1 virgin fossil fuel
EQT82 24-71, 2nd Stage Reaction Heater (F-43)	NSPS, Subpart D – Fossil-Fuel-Fired Steam Generators	Does not apply	40 CFR 60.40	Not a steam generating unit
EQT83 25-71, Main Fractionation Reboiler (F-44)	NSPS, Subpart Db and Dc Industrial-Commercial-Institutional Steam Generating Units	Does not apply	40 CFR 60.40b and 40c	Not a steam generating unit
FUG12 3011-95, Fugitive Emissions – HCU	NESHAP, Subpart J – Equipment Leaks of Benzene	Does not apply	40 CFR 61.111	Per definition not in benzene service (less than 10% benzene by wt.)
	NESHAP, Subpart V – Equipment Leaks from Fugitive Sources	Does not apply	40 CFR 60.241	Per definition not in VHAP or VOC service (less than 10% VHAP or VOC by wt.)
ARE21 3210-95, HCU Wastewater Emissions	NSPS, Subpart QQQ – VOC Emissions from Petroleum Refinery Wastewater Systems	Does not apply	40 CFR 60.690(a)(1)	Not constructed, modified, or reconstructed after May 4, 1987.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

INVENTORIES

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Hydrocracking Unit						
ARE 0021	3210-95 - HCU Wastewater Emissions		85.1 MM BTU/hr	66 MM BTU/hr		8760 hr/yr
EQT 0080	22-71 - 1st Stage Reaction Heater (F-41)		78.4 MM BTU/hr	45.1 MM BTU/hr		8760 hr/yr
EQT 0081	23-71 - 1st Stage Fractionation Reboiler (F-42)		64.5 MM BTU/hr	52 MM BTU/hr		8760 hr/yr
EQT 0082	24-71 - 2nd Stage Reaction Heater (F-43)		109.3 MM BTU/hr	69 MM BTU/hr		8760 hr/yr
EQT 0083	25-71 - Main Fractionation Reboiler (F-44)					(None Specified)
EQT 0311	698-K - HCU Seal Oil Traps					(None Specified)
EQT 0312	697-K - HCU Seal Oil Traps					(None Specified)
EQT 0313	703 - HCU Feed Surge Vent					(None Specified)
EQT 0314	706 - HCU Level Gas Purge					(None Specified)
EQT 0315	707 - HCU 1st Stage Fractionator Vent					(None Specified)
EQT 0316	708 - HCU 2nd Stage Fractionator Vent					(None Specified)
EQT 0317	767 - HCU TIA Enviro Project Stream					(None Specified)
EQT 0318	776 - HCU Pump Seal Poi					(None Specified)
EQT 0319	777 - HCU Pump Seal Poi					(None Specified)
EQT 0324	709 - H2 Plant Product					(None Specified)
EQT 0325	710 - H2 Plant Product					(None Specified)
EQT 0326	711 - H2 Plant Product					(None Specified)
EQT 0327	712 - H2 Plant Product					(None Specified)
EQT 0328	713 - H2 Plant Product					(None Specified)
EQT 0329	714 - H2 Plant Product					(None Specified)
EQT 0330	715 - H2 Plant Product					(None Specified)
FUG 0012	3011-95 - HCU Fugitive Emissions					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Hydrocracking Unit							
ARE 0021	3210-95 - HCU Wastewater Emissions	27.6	46130	5.96		150	361
EQT 0080	22-71 - 1st Stage Reaction Heater (F-41)	21.3	32791	5.71		150	361
EQT 0081	23-71 - 1st Stage Fractionation Reboiler (F-42)	25.6	32791	5.21		150	306
EQT 0082	24-71 - 2nd Stage Reaction Heater (F-43)	20.2	46130	6.96		150	306
EQT 0083	25-71 - Main Fractionation Reboiler (F-44)						
FUG 0012	3011-95 - HCU Fugitive Emissions						

Relationships:

INVENTORIES

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Group Type	Group Description
UNF 0005	Unit or Facility Wide	HCU - Hydrocracking Unit

Group Membership:

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
0720	0720 Petroleum Refining (Rated Capacity)	1	M bbl/day

SIC Codes:

2911	Petroleum refining	AI 1406
2911	Petroleum refining	UNF 005

General Information

AI ID: 1406 Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090022
Permit Number: 2629-V3
Air - Title V Regular Permit Renewal

Also Known As:	Name	User Group	Start Date
2520-00002	Motiva Enterprises LLC - Norco Refinery	CDS Number	05-27-1993
13-1299890	Federal Tax Id	Federal Tax ID	11-20-1999
72-0262490	Federal Tax ID #	Federal Tax ID	01-08-2001
76-0489497	Shell Norco Refining Co	Federal Tax ID	07-23-2002
76-0567102	Federal Tax Identification Number	Federal Tax ID	11-21-1999
LAD008186579	Motiva Enterprises LLC - Norco Refinery	Hazardous Waste Notification	08-18-1980
CA	GPRRA Baselines	Hazardous Waste Permitting	10-01-1997
LA0008186579	Inactive	Inactive & Abandoned Sites	11-01-1979
LA0003522	WPC File Number	LPDES Permit #	06-25-2003
WP0512	WPC State Permit Number	LWDPS Permit #	06-25-2003
	Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
	Radioactive Material License	Radiation License Number	10-24-2001
	X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
	Site ID #	Solid Waste Facility No.	08-17-2001
LA-2176-L01	Shell Norco Refining Co	TEMPO Merge	01-27-2005
2176	Shell Oil Co - Norco Manufacturing Complex Refinery	TEMPO Merge	02-21-2001
GD-089-0369	Motiva Enterprises - Norco Refinery	TEMPO Merge	02-21-2001
100456	Motiva Enterprises LLC/Shell Oil Co/Norco Refinery	TEMPO Merge	04-29-2001
17667	Motiva Enterprises LLC - Norco Refining Plant	TEMPO Merge	02-21-2001
19277	Shell Oil Co Co Norco	TEMPO Merge	07-05-2001
33125	Motiva Norco Refining Co	TEMPO Merge	05-02-2001
34615	Shell Oil Co - Norco Manufacturing Complex	TEMPO Merge	02-21-2001
37398	Shell Oil Co - Norco Refinery	TEMPO Merge	02-21-2001
38782	Shell Oil Co - Norco Manufacturing Complex	TEMPO Merge	02-21-2001
45019	Shell Oil Co - Norco Refinery - Motiva LLC Norco Refinery	TEMPO Merge	02-21-2001
47233	Norco Refinery	Toxic Release Inventory	07-13-2004
71559	TRI #	UST FID #	09-10-1999
70079MTVNR15536	Ust Facility Id Number	Water Permitting	11-21-1999
45008351	WPC State Permit Number		
WP0512			

Physical Location:	Main FAX:	5044656360
	Main Phone:	5044657609

Physical Location:
 15536 River Rd
 (a portion of)
 Norco, LA 70079

Mailing Address:
 PO Box 10
 Norco, LA 700790010

General Information

AI ID: 1406 Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090022
Permit Number: 2629-V3
Air - Title V Regular Permit Renewal

Location of Front Gate: 29.9983372 latitude, -90.410167 longitude, Coordinate Method: Lat(Long. - DMS, Coordinate Datum: NAD83

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Anne-Marie Ainsworth	15536 River Rd Norco, LA 70079	anne-marie.ainswort 5044656014 (WP)	Responsible Official for
	Anne-Marie Ainsworth	15536 River Rd Norco, LA 70079	anne-marie.ainswort 5044656014 (WP)	Responsible Official for
	William Cupp	3433 Hwy 190 PMB 342 Mandeville, LA 70448	9857279832 (WP)	Employed by
	William Cupp	3433 Hwy 190 PMB 342 Mandeville, LA 70448	9857279832 (WP)	Underground Storage Tank Contact for
	Andrew Englands	PO Box 10 Norco, LA 700790010	5044657011 (WP)	Water Billing Party for
	Andrew Englands	PO Box 10 Norco, LA 700790010	ANDREW.ENGLAND 5044657609 (WP)	Water Billing Party for
	Fred Goodson	PO Box 10 Norco, LA 700790010	5044657609 (WP)	Solid Waste Billing Party for
	Fred Goodson	PO Box 10 Norco, LA 700790010	5044657609 (WP)	Employed by
	Fred Goodson	PO Box 10 Norco, LA 700790010	5044657609 (WP)	Haz. Waste Billing Party for
	Kirk Menard		5044657202 (WP)	Employed by
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044657202 (WP)	Hazardous Waste Permit Contact For
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044657994 (WP)	Accident Prevention Billing Party for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044656729 (WF)	Accident Prevention Billing Party for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044156470 (CP)	Accident Prevention Billing Party for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	bill.marquis@motiva.com 5044657994 (WP)	Accident Prevention Billing Party for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	bill.marquis@motiva.com 5044657202 (WP)	Accident Prevention Contact for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044156470 (CP)	Accident Prevention Contact for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044656729 (WF)	Accident Prevention Contact for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044657994 (WP)	Accident Prevention Contact for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	bill.marquis@motiva.com 5044657202 (WP)	Accident Prevention Contact for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044156470 (CP)	Radiation Contact For
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044656729 (WF)	Radiation Contact For
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044657994 (WP)	Radiation Contact For
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	bill.marquis@motiva.com 5044657202 (WP)	Radiation Safety Officer for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044156470 (CP)	Radiation Safety Officer for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044657994 (WP)	Radiation Safety Officer for
	Quinvoia Robinson-Wells	15536 River Rd Norco, LA 70079	5044656729 (WF)	Radiation Safety Officer for
	Rene' Thoulion	PO Box 10 Norco, LA 700790010	RENE.THOULLION@ 5044657264 (WP)	Emission Inventory Contact for
	Rene' Thoulion	PO Box 10 Norco, LA 700790010	5044657264 (WP)	Emission Inventory Contact for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Motiva Enterprises LLC	Attn: Environmental Mgr Norco, LA 700790010	7132416147 (WP)	Owns
	Motiva Enterprises LLC	Attn: Environmental Mgr Norco, LA 700790010	7132416147 (WP)	UST Billing Party for
	Motiva Enterprises LLC	Attn: Environmental Mgr Norco, LA 700790010	7132416147 (WP)	Emission Inventory Billing Party
	Motiva Enterprises LLC	PO Box 10 Norco, LA 700790010	5044657871 (WP)	Air Billing Party for

General Information

AJ ID: 1406 Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Shell Norco Refinery - Motiva	PO Box 10 Norco, LA 70079		Radiation Registration Billing Party for
	Shell Norco Refinery - Motiva	15536 River Rd Norco, LA 70079		Radiation License Billing Party for
NAIC Codes:	424690, Other Chemical and Allied Products Merchant Wholesalers			

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090022

Permit Number: 2629-V3

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Hydrocracking Unit															
ARE 0021 310-95															
EQT 0080 22-71	5.44	7.01	23.81	6.47	8.34	28.34	0.49	0.63	2.15	1.74	2.24	7.61	0.33	0.43	1.45
EQT 0081 23-71	3.70	6.43	16.20	4.42	7.68	19.36	0.32	0.55	1.38	1.17	2.04	5.14	0.23	0.39	0.99
EQT 0082 24-71	4.26	5.29	18.68	5.10	6.32	22.32	0.36	0.45	1.59	1.36	1.68	5.92	0.26	0.32	1.14
EQT 0083 25-71	5.66	8.96	24.78	6.76	10.71	29.62	0.48	0.77	2.12	1.79	2.84	7.86	0.35	0.55	1.51
FUG 0012 301-95															
													22.92	34.40	100.40

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090022

Permit Number: 2629-V3

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
ARE 0021 3210-95	Benzene	<0.001	<0.001	0.004
	Ethyl benzene	0.001	0.001	0.004
	Naphthalene	<0.001	<0.001	0.004
	Toluene	0.02	0.02	0.09
	Xylene (mixed isomers)	0.01	0.01	0.06
EQT 0080 22-71	Formaldehyde	0.004	0.01	0.02
	n-Hexane	0.12	0.15	0.51
EQT 0081 23-71	Formaldehyde	0.003	0.01	0.02
	n-Hexane	0.08	0.14	0.35
EQT 0082 24-71	Formaldehyde	0.004	0.01	0.02
	n-Hexane	0.09	0.11	0.40
EQT 0083 25-71	Formaldehyde	0.004	0.01	0.02
	n-Hexane	0.12	0.19	0.53
FUG 0012 3011-95	2,2,4-Trimethylpentane	<0.001	<0.002	0.004
	Benzene	0.07	0.11	0.31
	Diethanolamine	0.20	0.30	0.89
	Ethyl benzene	0.09	0.14	0.39
	Hydrogen sulfide	0.09	0.13	0.39
	Naphthalene	0.05	0.08	0.23
	Polynuclear Aromatic Hydrocarbons	0.01	0.02	0.05
	Toluene	0.21	0.32	0.93
	Xylene (mixed isomers)	0.15	0.23	0.67
UNF 0005 HCU	n-Hexane	1.26	1.90	5.54
	2,2,4-Trimethylpentane			<0.01
	Benzene			0.31
	Diethanolamine			0.89
	Ethyl benzene			0.39
	Formaldehyde			0.08
	Hydrogen sulfide			0.39
	Naphthalene			0.23
	Polynuclear Aromatic Hydrocarbons			0.05
Toluene				1.02
	Xylene (mixed isomers)			0.73

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090022
Permit Number: 2629-V3
Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0005 HCU	n-Hexane			7.33

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090022
Permit Number: 2629-V3
Air - Title V Regular Permit Renewal

ARE 0021 3210-95 - HCU Wastewater Emissions

- 1 [40 CFR 61.348(a)(1)(i)] Waste stream: Benzene < 10 ppmw (flow-weighted). Subpart FF. [40 CFR 61.348(a)(1)(i)] Which Months: All Year Statistical Basis: Annual average
- 2 [40 CFR 61.348(e)(1)] Seals and/or openings: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that openings are closed and gasketed properly. Subpart FF. [40 CFR 61.348(e)(1)]
- 3 [40 CFR 61.348(e)(2)] Which Months: All Year Statistical Basis: None specified Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.348(e)(2)]
- 4 [40 CFR 61.348(e)] Seal any openings and keep closed at all times when waste is being treated, except during inspection and maintenance, except as specified in 40 CFR 61.348(e)(3). Subpart FF. [40 CFR 61.348(e)]
- 5 [40 CFR 61.354(a)(1)] Benzene monitored by the regulation's specified method(s) monthly. Measure the benzene concentration of the waste stream exiting the treatment process by collecting and analyzing one or more samples using the procedures specified in 40 CFR 61.355(c)(3). Subpart FF. [40 CFR 61.354(a)(1)]
- 6 [40 CFR 61.355] Which Months: All Year Statistical Basis: None specified Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(k). Subpart FF.
- 7 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 8 [40 CFR 63.647(a)] Comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR 61, subpart FF, except as provided in 40 CFR 63.647(b). Subpart CC. [40 CFR 63.647(a)]
- 9 [40 CFR 63.634(a)] Comply with the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.357 of 40 CFR 61 Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.634(a)]
- 10 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 11 [LAC 33:III.Chapter 51] Compliance with all the applicable requirements of NESHAP, 40 CFR 61, Subpart FF - National Emission Standard for Bezene Waste Operations is deemed compliance with the requirements of LAC 33:III.Chapter 51 - Comprehensive Toxic Air Pollutant Emission Control Program.

EQT 0080 22-71 - 1st Stage Reaction Heater (F-41)

- 12 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
- 13 [40 CFR 60.105(a)(4)] Which Months: All Year Statistical Basis: None specified Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- 14 [40 CFR 60.105(e)(3)(ii)] Which Months: All Year Statistical Basis: None specified Excess emissions periods be determined and reported based on 40 CFR 60.7(c) for all rolling 3-hour periods during which the average concentration of H2S continuous monitoring system under 40 CFR 105(a)(4) exceeds 0.1 gr/dscf. [40 CFR 60.105(e)(3)(ii)]
- 15 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.

SPECIFIC REQUIREMENTS

All ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

EQT 0080 22-71 - 1st Stage Reaction Heater (F-41)

- 16 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
- 17 [40 CFR 60.662(a)] Introduce the vent stream into the flame zone if a process heater or boiler is used to comply. Subpart NNN. [40 CFR 60.662(a)]
 Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
- 18 [40 CFR 60.663(c)(1)] Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- 19 [40 CFR 60.663(c)(1)] Which Months: All Year Statistical Basis: None specified
 Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
- 20 [40 CFR 60.663(c)(2)] Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
- 21 [40 CFR 60.663(c)(2)] Which Months: All Year Statistical Basis: None specified
 Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
- 22 [40 CFR 60.663(d)] Which Months: All Year Statistical Basis: None specified
 Operating time recordkeeping by electronic or hard copy as needed. Record the periods of operation. Make records readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]
- 23 [40 CFR 60.663(d)] Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- 24 [40 CFR 60.664(a)] Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
- 25 [40 CFR 60.664(b)] For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]
- 26 [40 CFR 60.665(b)] Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- 27 [40 CFR 60.665(b)] Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
- 28 [LAC 33.III.1101.B]
- 29 [LAC 33.III.1313.C]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

EQT 0080 22-71 - 1st Stage Reaction Heater (F-41)

30 [LAC 33:II.1503] Shall comply with all the applicable requirements of 40 CFR 60, Subpart J in lieu of LAC 33:II. Chapter 15.

EQT 0081 23-71 - 1st Stage Fractionation Reboiler (F-42)

- 31 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide $\leq 0.1 \text{ gr/dscf}$ (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: None specified
 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
 Which Months: All Year Statistical Basis: None specified
 Excess emissions periods be determined and reported based on 40 CFR 60.7(c) for all rolling 3-hour periods during which the average concentration of H₂S continuous monitoring system under 40 CFR 105(a)(4) exceeds 0.1 gr/dscf. [40 CFR 60.105(e)(3)(ii)]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
 Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Introduce the vent stream into the flame zone if a process heater or boiler is used to comply. Subpart NNN. [40 CFR 60.662(a)]
 Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined
 Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
 Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
 Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
 Which Months: All Year Statistical Basis: None specified
 Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
 Which Months: All Year Statistical Basis: None specified
 Operating time recordkeeping by electronic or hard copy as needed. Record the periods of operation. Make records readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]
 Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
 Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
 For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090022

Permit Number: 2629-V3

Air - Title V Regular Permit Renewal

EQT 0081 23-71 - 1st Stage Fractionation Reboiler (F-42)

- 46 [40 CFR 60.665(b)] Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- 47 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
- Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- Which Months: All Year Statistical Basis: None specified
- Shall comply with all the applicable requirements of 40 CFR 60, Subpart J in lieu of LAC 33:III.Chapter 15.

EQT 0082 24-71 - 2nd Stage Reaction Heater (F-43)

- 48 [LAC 33:III.1313.C] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
- 49 [LAC 33:III.1503] Which Months: All Year Statistical Basis: None specified
- Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- 50 [40 CFR 60.104(a)(1)] Which Months: All Year Statistical Basis: None specified
- Excess emissions periods be determined and reported based on 40 CFR 60.7(c) for all rolling 3-hour periods during which the average concentration of H₂S continuous monitoring system under 40 CFR 105(a)(4) exceeds 0.1 gr/dscf. [40 CFR 60.105(e)(3)(ii)]
- 51 [40 CFR 60.105(a)(4)] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 52 [40 CFR 60.105(e)(3)(ii)] Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 53 [40 CFR 60.106] Which Months: All Year Statistical Basis: None specified
- Introduce the vent stream into the flame zone if a process heater or boiler is used to comply. Subpart NNN. [40 CFR 60.662(a)]
- 54 [40 CFR 60.662(a)] Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- 55 [40 CFR 60.662(a)] Which Months: All Year Statistical Basis: None specified
- Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
- 56 [40 CFR 60.663(c)(1)] Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
- 57 [40 CFR 60.663(c)(1)] Which Months: All Year Statistical Basis: None specified
- 58 [40 CFR 60.663(c)(2)]

TPOR0147

Page 4 of 19

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

EQT 0082 24-71 - 2nd Stage Reaction Heater (F-43)

- 59 [40 CFR 60.663(c)(2)] Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
 60 [40 CFR 60.663(d)] Operating time recordkeeping by electronic or hard copy as needed. Record the periods of operation. Make records readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]
 61 [40 CFR 60.663(d)] Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
 Which Months: All Year Statistical Basis: None specified
 Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
 Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
 For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]
 Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 62 [40 CFR 60.664(a)] Which Months: All Year Statistical Basis: None specified
 Shall comply with all the applicable requirements of 40 CFR 60, Subpart J in lieu of LAC 33:III.Chapter 15.
- 63 [40 CFR 60.664(b)]
- 64 [40 CFR 60.665(b)]
- 65 [40 CFR 60.665(b)]
- 66 [LAC 33:III.1101.B]
- 67 [LAC 33:III.1313.C]
- 68 [LAC 33:III.1503]

EQT 0083 25-71 - Main Fractionation Reboiler (F-44)

- 69 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: None specified
 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
 Which Months: All Year Statistical Basis: None specified
 Excess emissions periods be determined and reported based on 40 CFR 60.7(c) for all rolling 3-hour periods during which the average concentration of H2S continuous monitoring system under 40 CFR 105(a)(4) exceeds 0.1 gr/dscf. [40 CFR 60.105(e)(3)(ii)]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
 Introduce the vent stream into the flame zone if a process heater or boiler is used to comply. Subpart NNN. [40 CFR 60.662(a)]

SPECIFIC REQUIREMENTS

AID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090022
Permit Number: 2629-V3
Air - Title V Regular Permit Renewal

EQT 0083 25-71 - Main Fractionation Reboiler (F-44)

- 74 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 75 [40 CFR 60.663(c)(1)] Which Months: All Year Statistical Basis: None specified Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
- 76 [40 CFR 60.663(c)(1)] Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- 77 [40 CFR 60.663(c)(2)] Which Months: All Year Statistical Basis: None specified Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
- 78 [40 CFR 60.663(c)(2)] Which Months: All Year Statistical Basis: None specified Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
- 79 [40 CFR 60.663(d)] Operating time recordkeeping by electronic or hard copy as needed. Record the periods of operation. Make records readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]
- 80 [40 CFR 60.663(d)] Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
- 81 [40 CFR 60.664(a)] Which Months: All Year Statistical Basis: None specified Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- 82 [40 CFR 60.664(b)] Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
- 83 [40 CFR 60.665(b)] Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- 84 [40 CFR 60.665(b)] For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]
- 85 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 86 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 87 [LAC 33:III.1503] Which Months: All Year Statistical Basis: None specified Shall comply with all the applicable requirements of 40 CFR 60, Subpart J in lieu of LAC 33:III.Chapter 15.

SPECIFIC REQUIREMENTS

All ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

EQT 0311 698-K - HCU Seal Oil Traps

88 [LAC 33:III.501.C.6] Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0312 697-K - HCU Seal Oil Traps

89 [LAC 33:III.501.C.6] Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0313 703 - HCU Feed Surge Vent

90 [LAC 33:III.501.C.6] Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0314 706 - HCU Level Gas Purge

91 [LAC 33:III.501.C.6] Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0315 707 - HCU 1st Stage Fractionator Vent

92 [LAC 33:III.501.C.6] Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0316 708 - HCU 2nd Stage Fractionator Vent

93 [LAC 33:III.501.C.6] Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0317 767 - HCU T/A Enviro Project Stream

94 [LAC 33:III.501.C.6] Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0318 776 - HCU Pump Seal Pot

95 [LAC 33:III.501.C.6] Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0319 777 - HCU Pump Seal Pot

SPECIFIC REQUIREMENTS**AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery****Activity Number: PER20090022****Permit Number: 2629-V3****Air - Title V Regular Permit Renewal****EQT 0319 777 - HCU Pump Seal Pot**

96 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0324 709 - H2 Plant Product

97 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0325 710 - H2 Plant Product

98 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0326 711 - H2 Plant Product

99 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0327 712 - H2 Plant Product

100 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0328 713 - H2 Plant Product

101 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0329 714 - H2 Plant Product

102 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT 0330 715 - H2 Plant Product

103 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

FUG 0012 3011-95 - HCU Fugitive Emissions

SPECIFIC REQUIREMENTS**AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery****Activity Number: PER20090022****Permit Number: 2629-V3****Air - Title V Regular Permit Renewal****FUG 0012 3011-95 - HCU Fugitive Emissions**

- 104 [40 CFR 60.590] Permittee shall monitor valves and pumps in VOC service at leak detection limits of 500 ppm for valves and 2,000 ppm for other components (except for connectors) using the monitoring procedure of Louisiana Refinery MACT Determination for Refinery Equipment Leaks, 40 CFR 60, Subpart GGG and LAC 33:III.2121 which ever is more stringent. [40 CFR 60.590, LAC 33:III.2121]
- 105 [40 CFR 63.648(a)] Comply with the provisions of 40 CFR 60 Subpart VV and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a)]
- 106 [40 CFR 63.648(h)] Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- 107 [40 CFR 63.654(d)] Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]
- 108 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 109 [LAC 33:III.2121.B.1] Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.
- 110 [LAC 33:III.2121.B.2] Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
- 111 [LAC 33:III.2121.B.3] Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.
- 112 [LAC 33:III.2121.C.1.a.i] Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 113 [LAC 33:III.2121.C.1.a.ii] Which Months: All Year Statistical Basis: None specified
- 114 [LAC 33:III.2121.C.1.a.iii] Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 115 [LAC 33:III.2121.C.1.b.ii] Which Months: All Year Statistical Basis: None specified
- 116 [LAC 33:III.2121.C.1.b.ii] Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 117 [LAC 33:III.2121.C.1.b.iii] Which Months: All Year Statistical Basis: None specified
- 118 [LAC 33:III.2121.C.1.c] Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 119 [LAC 33:III.2121.C.1.c] Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

FUG 0012 3011-95 - HCU Fugitive Emissions

- 119 [LAC 33:III.2121.C.3.a] Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
- Which Months: All Year Statistical Basis: None specified
- Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
- Which Months: All Year Statistical Basis: None specified
- When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
- Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.
- Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.
- Permittee shall comply with all the applicable requirements of the Consent Decree between U.S. EPA and Motiva Enterprises LLC, Civil Action H-01-0978, entered on August 21, 2001. Based on this Consent Decree the facility shall utilize a leak detection of 2000 ppm for all pumps and a leak detection of 500 ppm for all valves excluding pressure relief valves.
- A random two hundred connectors shall be monitored each year. The connector population shall consist of all one inch and larger connectors in gas/vapor or light liquid VOTAP service. For process units with LDAR programs consolidated to the LA MACT, the connector population shall include all valve end flanges for those valves in gas/vapor or light VOC service.
- Comply with the test methods and procedures in Section P, as specified in Subsections P.1, P.2, and P.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.3 through O.6, except for Subsection O.2.c, as specified in Subsection O.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.1.
- Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means as specified in Subsection O.11.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the monitoring requirements of Subsection O.2 through O.6, except that Subsection O.2.c does not apply, and the recordkeeping and reporting requirements.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

FUG 0012 3011-95 - HCU Fugitive Emissions

131 [LAC 33:III.5|09.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

132 [LAC 33:III.5|09.A]

Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible without a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

133 [LAC 33:III.5|09.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (have been welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P, except that Subsection P.3 and P.5 do not apply. The weld can also be tested by using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

Comply with this requirement instead of the requirements in Subsection O.1.

134 [LAC 33:III.5|09.A]

Which Months: All Year Statistical Basis: None specified
 Submit report: Due quarterly starting three months after the initial report required in Subsection R Paragraphs R.2.b,xvi through R.2b.xxii, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). The reporting schedule will be that which has been established by existing LDAR programs. Subsections R.1, R.3 and R.4 do not apply.

135 [LAC 33:III.5|09.A]

Permittee shall comply with all the applicable requirements of LAC 33:III.Chapter 51 - Louisiana MACT Determination for Refinery Equipment Leaks dated July 26, 1994 for fugitive emissions.

136 [LAC 33:III.5|09.A]

Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

137 [LAC 33:III.5|09.A]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, except for Subsection Q.5, Q.8, and Q.11, as specified in Section Q. of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), the leak definition is 500 ppm and the requirements of Subsection Q.12 will coincide with that done for valves and other components associated with connectors.

138 [LAC 33:III.5|09.A]

Permittee shall monitor closed vent systems in VOC service at the current leak detection limits of 500 ppm.

139 [LAC 33:III.5|09.A]

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors $>$ 2): VOC, Total monitored by the regulation's specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsection O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that Subsection O.2.c does not apply. If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading \geq 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

All ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

FUG 0012 3011-95 - HCU Fugitive Emissions

140 [LAC 33:III.5109.A]

Pumps in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 10000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3.

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors ≤ 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsection O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P, except that P.3 and P.5 do not apply. If an instrument reading ≥ 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O2.c does not apply. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading ≥ 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified

The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: A) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; B) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; C) Actual emissions following the changes will not exceed the emission limits contained in this permit; and D) The components are promptly incorporated into any applicable leak detection and repair program.

Permittee shall determine the percent leak rate of components found leaking during current monitoring and components for which repair has been delayed by the total number of components monitored. Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P, except for Subsection P.3 and P.5 which do not apply. Comply with this requirement instead of the requirements in Subsection O.1.

Which Months: All Year Statistical Basis: None specified

141 [LAC 33:III.5109.A]

Pumps in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 10000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3.

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors ≤ 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsection O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P, except that P.3 and P.5 do not apply. If an instrument reading ≥ 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O2.c does not apply. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading ≥ 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified

The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: A) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; B) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; C) Actual emissions following the changes will not exceed the emission limits contained in this permit; and D) The components are promptly incorporated into any applicable leak detection and repair program.

Permittee shall determine the percent leak rate of components found leaking during current monitoring and components for which repair has been delayed by the total number of components monitored. Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P, except for Subsection P.3 and P.5 which do not apply. Comply with this requirement instead of the requirements in Subsection O.1.

142 [LAC 33:III.5109.A]

Pumps in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 10000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3.

Which Months: All Year Statistical Basis: None specified

TPOR0147

Page 12 of 19

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20090022
Permit Number: 2629-V3
Air - Title V Regular Permit Renewal

INF 0005 HCU - Hydrocracking Unit

- 147 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 148 [40 CFR 61.145(b)(1)] Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- 149 [40 CFR 61.148] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- 150 [40 CFR 61.342(e)] Benzene: Permittee shall comply with all the applicable requirements of the alternative requirements of paragraphs 40 CFR 61.342(c) and (d). The permittee shall manage and treat facility waste with a flow weighted annual average water content of less than 10 percent in accordance with 40 CFR 61.342(c)(1). The benzene quantity for the wastes described in 40 CFR 61.342(e)(2) shall be equal to or less than 6.6 tons per year, as determined in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.342(e)]
- 151 [40 CFR 61.355(k)] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.355(k)]
- 152 [40 CFR 61.356(a)(4)] Benzene: Permittee shall comply with all the applicable recordkeeping requirements as stated in 40 CFR 61.356 and all the applicable reporting requirements of 40 CFR 61.357. Subpart FF. [40 CFR 61.356(a)(4), 40 CFR 61.357]
- 153 [40 CFR 61.356(b)(4)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(b)(4). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356(b)(4)]
- 154 [40 CFR 61.] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 155 [40 CFR 63.642(d)(2)] Submit Notification of the intention to conduct a performance test. Due at least 30 days before the performance test is scheduled. Subpart CC. [40 CFR 63.642(d)(2)]
- 156 [40 CFR 63.642(g)] Control emissions of organic HAPs to the level represented by the equation in 40 CFR 63.642(g). Subpart CC. [40 CFR 63.642(g)]
- 157 [40 CFR 63.654(g)] Submit Periodic Report: Due no later than 60 days after the end of each 6-month period when any of the compliance exceptions specified in 40 CFR 63.654(b)(1) through (g)(6) occur. Include the information specified in 40 CFR 63.654(g)(1) through (g)(8). Subpart CC. [40 CFR 63.654(g)]
- 158 [40 CFR 63.654(h)(1)] Submit reports of startup, shutdown, and malfunction required by 40 CFR 63.10(d)(5). Subpart CC. [40 CFR 63.654(h)(1)]
- 159 [40 CFR 63.654(h)(6)] Submit the information specified in 40 CFR 63.654(h)(6)(i) through (iii), as applicable. Subpart CC. [40 CFR 63.654(h)(6)]
- 160 [40 CFR 63.654(i)(2)] Retain a record of all reported performance test results required under 40 CFR 63.654(f) and (g)(7) as well as a complete test report, as described in 40 CFR 63.654(f)(2)(ii) for each emission point tested. Subpart CC. [40 CFR 63.654(i)(2)]
- 161 [40 CFR 63.654(i)(4)] Retain all information required to be reported under 40 CFR 63.654(a) through (h) for five years. Subpart A. [40 CFR 63.654(i)(4)]
- 162 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- 163 [40 CFR 82.Subpart F] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82. Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 164 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 165 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.

SPECIFIC REQUIREMENTSAI ID: **1406 - Motiva Enterprises LLC - Norco Refinery**

Activity Number: PER20090022

Permit Number: 2629-V3

Air - Title V Regular Permit Renewal

UNF 0005 HCU - Hydrocracking Unit

- 166 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 167 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 168 [LAC 33:III.1503] Shall comply with all the applicable requirements of 40 CFR 60, Subpart J in lieu of LAC 33:III.Chapter 15.
- 169 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 170 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 171 [LAC 33:III.2141] VOC emissions from the petroleum refinery process unit turnarounds shall be controlled by pumping the liquid contents to storage and depressurizing units to 5 psig or below before venting to the atmosphere. This shall be accomplished as per the requirements of LAC 33:III.2115.A, B, and F. Records shall be kept as per the requirements of LAC 33:III.2115.I, J, and K.
- 172 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 173 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 174 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 175 [LAC 33:III.501.C.6] Motiva shall perform a full impact analysis for PM10 (24-hour), SO2 (3-hour and 24-hour), and CO (1-hour and 8-hour) to ensure that allowable emissions do not result in exceedances of a NAAQS or PSD increment (PM10 and SO2 only). Motiva shall prepare and submit a modeling protocol to LDEQ no later than 15 days after permit issuance and initiate the short-term modeling runs no later than 7 days after the protocol has been approved. Motiva shall report the results of these modeling runs to LDEQ within 7 days after the results are obtained. If the aforementioned modeling results indicate that Motiva's emissions result in exceedances of the NAAQS or PSD increment for any pollutant, and Motiva's contribution to such exceedance is found to be greater than a de minimis amount, LDEQ shall reopen the Title V permit in accordance with LAC 33:III.529 within 45 days and take such measures as necessary to ensure that the NAAQS are not violated and PSD increments are preserved.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

UNF 0005 HCU - Hydrocracking Unit

176 [LAC 33:III.507.B.2]

No Part 70 source may operate after the time that the owner or operator of such source is required to submit a permit application under Subsection C of this Section, unless an application has been submitted by the submittal deadline and such application provides information addressing all applicable sections of the application form and has been certified as complete in accordance with LAC 33:III.517.B.1. No Part 70 source may operate after the deadline provided for supplying additional information requested by the permitting authority under LAC 33:III.519, unless such additional information has been submitted within the time specified by the permitting authority. Permits issued to the Part 70 source under this Section shall include the elements required by 40 CFR 70.6. The Louisiana Department of Environmental Quality hereby adopts and incorporates by reference the provisions of 40 CFR 70.6(a), as in effect on July 21, 1992. Upon issuance of the permit, the Part 70 source shall be operated in compliance with all terms and conditions of the permit. Noncompliance with any federally applicable term or condition of the permit shall constitute a violation of the Clean Air Act and shall be grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application.

Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration.

No major stationary source or major modification to which the requirements of this Part apply shall begin actual construction without a permit issued under this Section.

A major stationary source or major modification shall meet each applicable emissions limitation under the Louisiana State Implementation Plan and each applicable emissions standard and standard of performance under the Louisiana New Source Performance Standards (LNSPS) and Louisiana Emission Standards for Hazardous Air Pollutants (LESHAP) and Sections 111 and 112 of the Clean Air Act. A major modification shall apply best available control technology for each pollutant subject to regulation under this Section which would result in a significant net emissions increase at the source. This requirement applies to each proposed emissions unit at which a net emissions increase in the pollutant would occur as a result of a physical change or change in the method of operation in the unit.

For phased construction projects, the determination of best available control technology shall be reviewed and modified as appropriate at the latest reasonable time which occurs no later than 18 months prior to commencement of construction of each independent phase of the project. At such time, the owner or operator of the applicable stationary source may be required to demonstrate the adequacy of any previous determination of best available control technology for the source.

Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III. Chapter 51 Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III. Chapter 51. Subchapter A, after the effective date of the standard.

Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109.

Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.

Do not fail to keep records, notify, report or revise reports as required under LAC 33:III. Chapter 51. Subchapter A.

Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.

TPOR0147

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090022

Permit Number: 2629-V3

Air - Title V Regular Permit Renewal

UNF 0005 HCU - Hydrocracking Unit

187 [LAC 33:III.5107.A.3]

Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502.

Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations"

Submit notification: Due to the Department of Public Safety Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).

Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923.

Submit notification: Due to SPOC immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931, except as provided in LAC 33:III.5107.B.6.

188 [LAC 33:III.5107.B.1]

Submit notification in the manner provided in LAC 33:I.3923.

189 [LAC 33:III.5107.B.2]

Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC

33:III.5107.B.1 through 3. Submit report to SPOC by certified mail. Include the information specified in LAC 33:III.5107.B.4.i through viii. Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.

Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology.

Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2.

Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department.

Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:I.1701, before commencement of the construction of any new source.

190 [LAC 33:III.5107.B.3]

191 [LAC 33:III.5107.B.4]

192 [LAC 33:III.5107.B.5]

193 [LAC 33:III.5109.B.3]

194 [LAC 33:III.5109.B]

195 [LAC 33:III.5109.C]

196 [LAC 33:III.5111.A.1]

SPECIFIC REQUIREMENTS**AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery****Activity Number: PER20090022****Permit Number: 2629-V3****Air - Title V Regular Permit Renewal****UNF 0005 HCU - Hydrocracking Unit**

197 [LAC 33:III.5111.A.2.a]

Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source.

Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified.

Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel.

Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.

Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e.

Submit certified letter: Due to the Office of Environmental Assessment before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test.

Analyze samples and determine emissions within 30 days after each emission test has been completed. Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.

Submit notification: Due to the Office of Environmental Assessment at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.

Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.

Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.

Submit performance evaluation report: Due to the Office of Environmental Assessment within 60 days of the monitoring system performance evaluation.

Submit notification in writing: Due to the Office of Environmental Assessment at least 30 days before a performance evaluation of the monitoring system is to begin.

Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems.

Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Fumish DEQ with two or more copies of a written report of the test results within 60 days.

Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B.

Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20090022

Permit Number: 2629-V3

Air - Title V Regular Permit Renewal

UNF 0005 HCU - Hydrocracking Unit

- 214 [LAC 33:III.5113.C.5.e]
 215 [LAC 33:III.5113.C.5]

Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS.

Submit plan: Due to the Office of Environmental Assessment within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system.

- 216 [LAC 33:III.5113.C.7]

Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ.

- 217 [LAC 33:III.511]

Submit notification: Due to the permitting authority prior to the initiation of any project which will result in emission reductions. Include in the notification a description of the proposed action, a location map, a description of the composition of air contaminants involved, the rate and temperature of the emissions, the identity of the sources involved and the change in emissions. Make any appropriate permit revision reflecting the emission reduction no later than 180 days after commencement of operation and in accordance with the procedures of LAC 33:III.Chapter 5.

- 218 [LAC 33:III.5151.F.1.]

An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.

- 219 [LAC 33:III.517.D]

Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III.Chapter 5 shall contain the information specified in LAC 33:III.517.D, subparagraphs 1-18.

- 220 [LAC 33:III.517.G]

Submit change of ownership notification in accordance with LAC 33:I Chapter 19.

- 221 [LAC 33:III.523.A]

Submit permit modification application: Due within 45 days of obtaining relevant test results. The permit modification or amendment shall include all information necessary to process the request, and is required if testing demonstrates that the terms and conditions of the existing permit are inappropriate or inaccurate.

- 222 [LAC 33:III.5609.A.1.b]

Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.

- 223 [LAC 33:III.5609.A.2.b]

Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.

- 224 [LAC 33:III.5609.A.3.b]

Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.

- 225 [LAC 33:III.5609.A]

Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.

- 226 [LAC 33:III.5611.A]

Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority.

- 227 [LAC 33:III.5611.B]

During an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.

- 228 [LAC 33:III.5901.A]

Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.

- 229 [LAC 33:III.5907]

Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20090022
 Permit Number: 2629-V3
 Air - Title V Regular Permit Renewal

UNF 0005 HCU - Hydrocracking Unit

230 [LAC 33.III.5911.A]

Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33.III.Chapter 59, whichever is later. Include the information listed in LAC 33.III.5911.B, and submit to the Office of Environmental Compliance.

Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.

Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.

Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits.

Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations.

No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety.

Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment.

Include all data applicable to the emissions source(s), as specified in LAC 33.III.919.A-D.

Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33.I.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33.I.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.

No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded.

TPOR0147